Replacement Sheet

1/20

Fig. 1

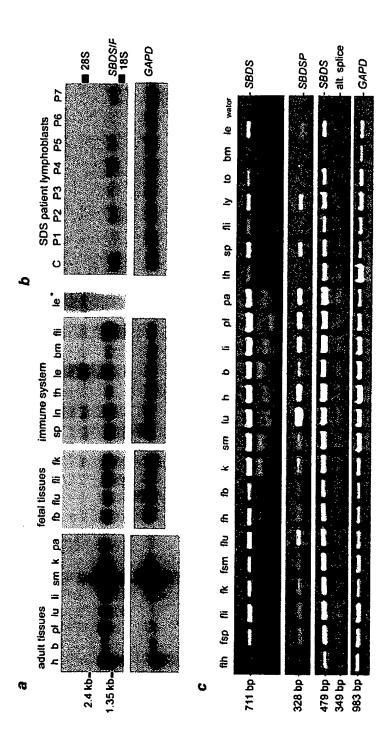


Fig. 3

### Replacement Sheet

4/20



# Replacement Sheet 5/20

#### SBDS Exon 1: (SEQ ID NO: 35)

SBDS SBDSP	Primer A (SDCR9x1BF) →  qcqtaaaaaqccacaatacgcaggcgt
MUSBDS	aacgacccgccttcctttgaggtgcct
→	Primer Q (RTSDCR91F)
SBDS SBDSP MUSBDS	categetcacttttcccctcccggettctgetccacctgacgcctgcgcagtaagtaagc
SBDS SBDSP MUSBDS	<pre>ctqccaqacacactgtgacggctgcctgaagctagtgagtcgcggcgcgcgc</pre>
SBDS SBDSP MUSBDS	gttgggtcagtgccgcgccgatcggtcgttaccgcgaggcgctggtggccttcaggct
SBDS SBDSP MUSBDS	ggacggcgcgggtcagccctggttcgccggcttctgggtctttgaacagccgcgATGTCG
	MS

# Replacement Sheet 6/20

•	I	F	T	P	T	N	Q	I	R	L	T	N	V	A	V	V	R	M	K	R
SBDS	ATC																	ATG		
SBDSP	atc	ttc	acc	ccc	acc	aac		atc	cgc	cta	acc	aat	gtg	gcc	gtg	gta				
MUSBDS	ATC	TTC	ACC	ccc	ACC	AAC	CAG	ATC	CGA	CTG	ACC	TAA	GTG	dcc	GTG:	GTG	ccc	ATG	ÄÄG	cee
	ī	F	—- Т	P	T		Q	—— I	R		T	n N			v	v	R		ĸ	R
																		•		
	A	G	ĸ	R	F	B	I	A	ď	Y	ĸ	N	ĸ	v	v	G	W	R	s	G
SBDS	GCC											AAC	AAG	GTC	GTC	GGC	TGG	CGG	AGC	GGC
SBDSP	gcc						 atc											  cgg		
MUSBDS	GGA	]     3GG	 AAG	CGC	 TTC	 Gaa	 ATC	 GCC	 TGC	TAT	 AAA:	 AAC	 DAA	 GTC	GTC	 :GGC	TGG:	CGG	 AGT	GGC
	—-																			<del></del>
	G	G	K	R	F	E	I	A	С	Y	K	N	K	V	V	G	W	R	s	G
	128 																			
SBDS	GTg	tga	gta	.gcc	ccc	tcc	ctc	999	cct	ggg	raat	999	ract	gag	ccg	tca	cct	.ccg	agg	cgg
SBDSP					$\Pi$	Ш			Ш	111	Щ	111	111	111	111	Ш	Ш		Ш	111
MUSBDS	 GTgi	١Ī١	ĪШ	_		1 1	1	ΪĪ		Ħ		Ī	1			-	$\Pi$	1		Ī
	-	_	-		_								-				_	•		
SBDS	cct	gto	tet	gcc 	caa	gto 					cag				tt-			cgg	gga 	gga 
SBDSP	cct	gtc	tet	gcc l	caa	gto	gag 	tga	atg I	ggc	cag	get	999	gtg	ttt	gtt	ggc 	ccg	gga 	gga
MUSBDS	acc	cat	cgg	tac	ctt	tca	ggc	ctg	gtt	tac	ccg	att	cġġ	att	<b>3</b> 33	ttc	tgc	ttt	999	att
SBDS	aato	qqa	aca	ttc	ctq	ctq	taa	qca	tqa	gac	atc	qct	gta	cqa	gat	taa	cac	cta	age	caa
SBDSP	aat																	 cta		
MUSBDS	ttg	Ĭ	1		_		_	11	_	_	٠.	Īl	11	Ĭ١	ĬI	ĬĬ	•		Ĭ	
			,												.j	333		5	~5~	-33
			4	_ gı	DCR (	9561	seqi	er.												
SBDS	499°		ct <u>t</u>	ctt	tat	<u>tt</u> g		ggt			tgg 111								ttt:	gtt
SBDSP	333 																		iii ttt:	gtt
			1 1	i	ı		1		ł		- 1			1		- 1	1	1 1	H	

# Replacement Sheet 7/20

MUSBDS	tttaggcetgtaatcccagcgcccaggaaactgaggcaggaggattgctgcgatttccag
SBDS SBDSP MUSBDS	ggtgtcataaaagctgcagccaagaaatctcgtaattgtggtccttttcctagaataatg
SBDS SBDSP MUSBDS	← Primer B (SDCR9x1BR)  atggctgagaacctagtcttacqaatactqtcataq
	· (CEO ID NO. 26)
BBDS EXC	on 2: (SEQ ID NO: 36)
SBDS P1	rimer E (SDCR9x2BF)-> <pre>aaatqqtaaqqcaaatacqqttctgagttttgaaaatgttccctcaggccgatgcgggca</pre>
	aaatggtagggcaaatacagttctgagttttgaaaatgttccctcaggccgatgcgggca
SBDSP	
MUSBDS	gtagtgtcttcgctactgccatctagggacagatattccaggacagaagaaacaccactc
SBDS	gttcacttgaggccaggagttcgaggccagcctggccaacatgaaaccccatctctacta
SBDSP	gatcacttgaggccaggagttcgaggccagcctggccaacatgaaacaccatctctacta
MUSBDS	cccaccacaccctgagtttccttacataaaacaatgatgtagtttttccctctgtggtga
SBDS	aaaatacaaagttagccgggtgtgggtgggcatgcctgtaatcccagttactcaggaggc
SBDSP	
MUSBDS	agtgggagaatccagatactgtccttcgcaggtagccaccagagagag
MODADA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SBDS	tgaggcgggagaatcacttgaacccgggaggctgaggttacagtgacccgagatcgcgcc
SBDSP	tgaggcaggagaatcacttgaacccgggaggcggacgttgcagtgagccgagatcgcgc
MUSBDS	

# Replacement Sheet 8/20

	SBDSP MUSBDS	at 	 tgc	 act	 ccag	ject	 -99! 	 gcaa	aaaa	 acaș	 gtga	 aaa 	 tte 	cat	 cta 	agg agg	gcg 	gg-	 	aaa 	1                   	-
•	SBDS SBDSP MUSBDS	 	]	 -aaș	 gaaa	aact	 :gc	 ecto	tac	cact	 taaa	agg       agg	tca     tca	tca     tca	ggg:	gga     gga	ttt     ttt	att     att	ata     ata	tct     tct	) →   <u>tq</u> ac 	3
	SBDS SBDSP MUSBDS	]  gt	 tca 	  :gt  	  gt  	 :gcd 	 cate	 ctcg 	 gtai	etta      - 	aaat       aaat	tgt:     tgt: 	aa <u>a</u>     aa <u>a</u>	<u> </u>	 atg 	tee     tee	aaq     aaq	<u>ttt</u>     <u>ttt</u> 	caa       caa	gta     gta	tatt      tatt   ggat	:
	SBDSP SBDSP MUSBDS	ca 	 cata 		 act: 	   tet 	  cet 	  catg	 	  :tea 	 aca: 	agĞi 	E     gaa	 aaa 	GAC	. ctt: 	 gat 	 gaa 	 gtt 	 ctg 	Q CAGA      caga      CAGA	ι
	SBDS SBDSP MUSBDS	CC 11 cc	CAT	TCA       tca         TCA	GTG       gtg       GTG	TTT(	STA       gta       STA	AAT(	STT:       gtt! 	rcti	AAA    taa     AAA	GGT       ggt       GGT	CAG       cag         CAG	GTT     gtt     GTT	GCC     gcc     GCC	AAA    aag    AAG	AAG     aag     AAG	GAA     gaa     GAA	GAT     gat    GAC	CTC	ATCA           atca           ATCA	. <u>.</u> .
		T	H	S	V	F	V	N	V	S	K	G	Q	V	A	K	K	E	D	L	I	

258

Replacement Sheet 9/20 SAFGTDDOTEICK SBDS GTGCGTTTGGAACAGATGACCAAACTGAAATCTGTAAGCAGgtgggtaacagctgcagca SBDSP gtgcgtttggaacagatgaccaaactgaaatctgtaagcaggcgggtaacagctgcagca 11 11 GTGCATTTGGGACAGACGACCAGACTGAAATCTGCAAGCAGgtaggtcctgccaggtgca MUSBDS SAFGTDDQTEICKQ SBD\$ tagctaaccctaataaccatttataacgtatttgtagatatattaaacattaaaggctgt SBDSP tagetaacectaataaccatttataacgtatttgtagatatattaaacattaaaggctgt . 1 1 11 11 - 1 MUSBDS atgtaacaaaatctcacgatggtaggcaacatctggaccactgtgtttactgttttctt ← Primer D (SDCR9/SDCR9Lx2R) SBDS ttttctqqaqqaaaqactaaccaagcaataatgtgaactgcacagtqtcacttctaataa SBDSP ttttctqqaqqaaaqactaaccaagcaataatgtgaactgcacaatatcacttctaataa 1 MUSBDS ← Primer F (SDCR9x2BR) SBDS taaaqaacttqqt 1111111111111 SBDSP taaagaacttggt MUSBDS ggcaatttgggga...~ SBDS Exon 3: (SEQ ID NO: 37) Primer G (SDCR9x3BF) → SDCR9x3CF SBDS <u>gctcaaaccattacttacatattga</u>tagctggagaggatgaaatttaat<u>tttctctccat</u> gctcaaaccattacttacatattaatagctggagaggatgaaatttaattttctcccca-SBDSP MUSBDS tgtaagctgctgctgggttaaggcagcacgtggttctgcgtgagcagctgcagtggacgc SBDS ccaqttactcattttttatggttagttaataaatagtgtgtgatagagaaagatagtgat 

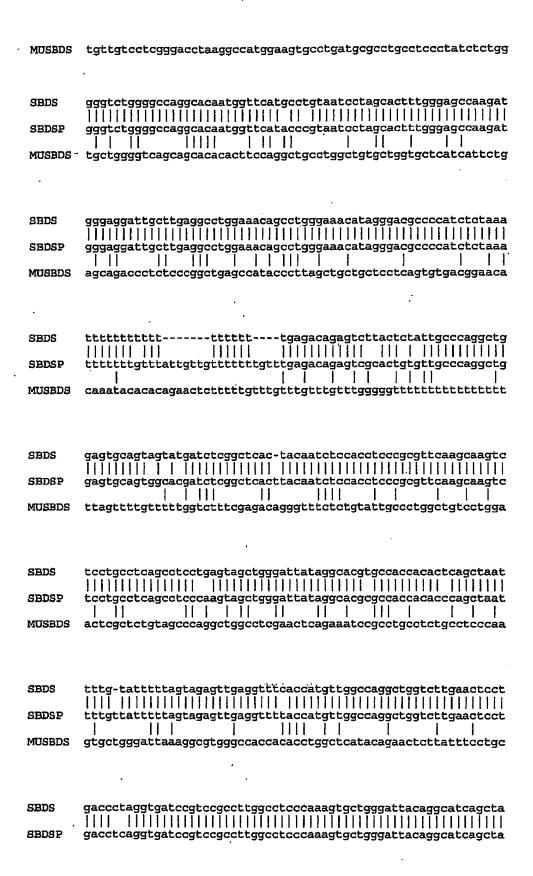
--gttactcattttttgtcgttagttaataaatagtgtgtgatagagaaagatagtgat

SBDSP

# Replacement Sheet 10/20

MUSBDS	egce	 teed	. ttc	 ctco	ccç	jcta	cct	ace	ctgt	gca	 agta	agag	gaga	ıtac	cca	}   Igaa	ctg	jato	gagg
								:	259   	L	т	ĸ	G	E	v	Q	v	s	D
SBDS	ttct	taaa	tgt	 gttg	gça	attt	ttt	tag	ATI	TIC	AC	'AAA'	GGZ	GAZ	GTI	CAA	GTA	TCP	GAT
SBDSP	 ttat	 taac		• • • •					 		  act				[   ] tt	[[[	   -	 ıtca	  gat
	1	1	$1\overline{1}$	[H]			-	$\Pi$	ĪШ	$\Pi$	Ш	Ш	ĬĬI	ĪШ	ĬII		ĪI	$\Pi$	ĪШ
MUSBDS	gctt	tete	tat	gtto	tgo	cat	ctt	tag	TTAE										
									I	L	T	K	G	E	V	Q	V	s	D
D.v.	imer '	T / 12	יתפחי	ים <i>ס</i> יד	1 <del>2</del> 1	-7:													
~ .		E R		T	-	L	E	Q	M	F	R	D	I	A	T	I	v	A	D
SBDS	AAAG	AAAC																	
SBDSP	 aaag	 a							 gatg									 gca	
MUSBDS	 AAAG		 	ון     מסמי	 				27TG		ון יאמי		ןן אדימי	ill GCC	ון יאכיכי	ן     זיירעי	GTG	ا     ا   ا	(B)
		B R				L			M	F		D	I	A			V		D
	к.		. п	•	¥			¥	1-2	F	R	ם		A	1	_	V	,	<b>,</b>
						•													
•	K	C V	N	P	E	T	K	R	P	Y	T	v	I.	L	I	E	R	A	M
SBDS	AAAT								ACCA										ATG
SBDSP	aaat							age	cca	tac	acc	gtg							atg
MUSBDS	AAGT	GTGT	GAA	CCA	I I I	ACA	AAG	AGZ			l     ACC		ATC	CTC	ATC	GAG	AGA	GCC	ATG
	K	<del>c</del> v	N	P	E	T	ĸ	R	P	Y	. T	v	ī	L	ī	E	R	<u>A</u>	M
				4	D~1	mar	đ	/ YOU'	SDC	D03	r)		•		45 1	9			
	K	D I	н	-	s	V	ĸ	T	N	K	S	T	ĸ	Q	Q				
SBDS	AAGG	ACAT	CCAC	TAT	TCC	GTG					AGT	ACA	AAA	CAG	CAG	gtg	agt	ggt	tte
SBDSP	aagg	 acat	 .cca	 ctat	ا ا ttg:	III gtg			 :aac		  agt	 aca	 aaa	ill cag	 cag	 gtg	 agt	 ggt	ctc
MUSBDS	AAGG	$\ \cdot\ $			11-	111	$\Pi$	11	111	Ш	11	$\Pi\Pi$			$\Pi\Pi$		11	1	]
	KI			Y				P	N	ĸ				0		J	~33	900	
	K 1	, .		•		٧	Α.	<b>-</b>	14	K	٥	•	T.	Q	¥				
SBDS	tcat		Prim tcaa									n+~	tan	2012	aat.	ast		22 <b>+</b>	22+
	1111	1111	1111		$\Pi\Pi$	111	$\Pi$			111	111	111	111	$\Pi$	$\Pi$	Ш	111	111	$\Pi\Pi$
SBDSP	tcate	g <u>tca</u> 	tcaa 	aat 	<u>ata</u> 	gcc	atq	<u>qa</u> a	atc 	agt 	ttt	ctc	tga 	aga	aat	cat 	taa 	aat	aat

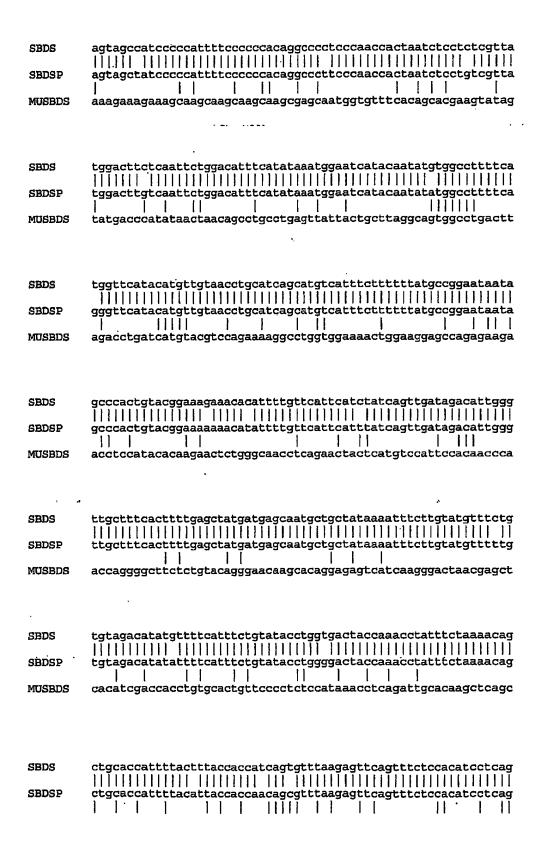
### Replacement Sheet 11/20



# Replacement Sheet 12/20

MUSBDS	
SBDS P SBDSP MUSBDS	ccgtaccctacctctaaattttttaatataaaaaattaaattaaaaaa
SBDSP MUSBDS	Primer H (SDCR9x3BR)  tqqaaqcaaqtq           tggaagcaagtg        ggattccaagca
SBDS Exc	on 4: (SEQ ID NO: 38)
SBDS SBDSP MUSBDS	Primer I (SDCR9x4CF)   aaaqqqtcattttaacacttc
SBDS SBDSP MUSBDS	aaatttcacactcataaagtatgtacactttaagtggtatattaacaaagttttggaacc
SBDSP MUSBDS	ttccctgctacctggttcgagaacattttcatcaccacaaaaagaaag

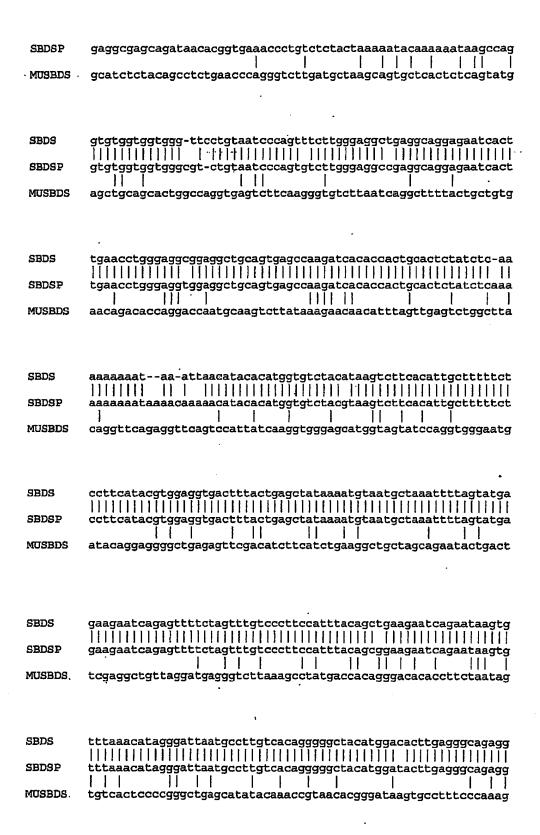
### Replacement Sheet 13/20



MUSBDS	ccccgtctcctccacatccagctgccagtgactgacgctgcctgc
SBDS SBDSP MUSBDS	taatacttgtcattgtctgcctttttgatgatggccatcctggtggtatcttgtcgtggt
SBDSP SBDSP MUSBDS	tttgatttgcatttccttaatgatgatttgagcatatttccatgtgcttattggtgcctc
SBDS SBDSP MUSBDS	gtctgtcttcttttgagaaatctctgttcaggttctttgcccac-c-c
SBDS P MUSBDS	c-ccccgcc-ctctt-tttgcaaactctgcctcccgga
SBDSP MUSBDS	ttcaagcaattctcctgcctcagcctcttgagtagctgggattacaggcgtgcactacca
SBDS SBDSP MUSBDS	cacccggctaattttctttttttttttattattttagtggagacggggtttcaccatgttggc
SBDS SBDSP MUSBDS	caggetggtetegaatteetgacettgtgatgeaceegeeteggeeteeaaagtgetgg

										SD	CR9	x4 s	eqB	→				
SBDSP	aatta      gatta	<b>       </b>		$\Pi\Pi\Pi$		$\Pi$	$\prod$		$\Pi\Pi$	111	Ш	Ш	111		$\Pi$	$\Pi$	$\Pi$	$\Pi\Pi$
MUSBDS - 1	ccact	 :gaad	 ctgaç	 gteed	ago	ctt	taa	l cgt	tgc	ttt	l ctg	ecg.	l aag	caa	aaa	 tta	ttt	tttt
SBDS	aaago					$\Pi\Pi$	$\Pi$		$\Pi$		$\Pi$		Ш	Ш	$\Pi$	$\Pi$		$\Pi\Pi$
SBDSP MUSBDS	ttcca				- 1	- 1	1	- 1	1	11			Ш		]].		1	
SBDS	cttaa	itgti	tatac	ctaa	ıgaa 	acc	att 	acc	taa 	tcc 	aac	tac:	atg	gaa 	act:	act	ttg 	tttt 
SBDSP MUSBDS	cttas     cttgg			11	_		}					1	ΙĪ	_	, 1	1	1	
460																		l
SEDS	tgaaa	acct	tate	gaaat	aat	ata	T	gaa 	7	att 	gcai	tte 	tegi	att 	ttg 	tct:	tggʻ	tagG 
SBDSP MUSBDS	tgaaa   catat				1	1 1		- 11				- 1	1	1				
		_			•		7.7		77	N.F	<b>77</b> 2	-	R	R	A		м	
SBDS	A L	E	V J		Q CAG	L mmx	K	E	K	M	K	I ATTA						R NGCC
	11111				Ш	$\Pi$	Ш	111	111	111		111	П	Ш	Ш	Ш	Ш	Ш
SBDSP MUSBDS	CTTT				111			Ш	11	Ш			H	П	П		$\Pi$	l
	ĀL	B	v :	K	Q	L	K	E	K	M	K	I	E	R	A	H	М	R
	L R	F	II	. P	v	N	B	G	ĸ	ĸ	L	ĸ	E	ĸ	L	ĸ	P	L
SBDS	TTCGG	TTC		TCCF							CTG	AAA	GAA	AAG	CTC	AAG		
SBDSP	ttcag	rttea 				, , ,					III etga 	iil aaag il	 gaaa 	ill aage 	iii ctc: 	ı I I zagı 		 ctga 
MUSBDS	TGCGC	TTC	ATCC:	GCC	GTG	AAC	GAA	GGG	AAG	AAG	TG	AAG	GAG	AAG	CTG	AAG	CCA	CTGA

#### ILPVNEGKKLKE KLKPL 624 I K V I E S E D Y G Q Q L E SBDS TCAAGGTCATAGAAAGTGAAGATTATGGCCAACAGTTAGAAATCgtaagagtcaaatatt SBDSP tcaaggtcatagaaagtaaagattatggccaacagttagaaatcgtaagagtcaaatatt TGAAGGTGGTGGAGAGTGAGGACTACAGCCAGCAGCTGGAGATCGtaagatgatggtggc MUSBDS MKVVESEDYSQQLEI SBDS ttctttgcttcatgttacctaaatattgtattctctagtaataaatttgtagcaaacatt SBDSP ttctttgcttcatgttacctaaatattgtattctctagtaataaatttgtagcaaacatt 1 | || 111 MUSBDS ggggagcaggtggcgcagccaaggtcccatgattatgaccttaacacattattattcttg ← Primer J (SDCR9x4CR) SBDS tagatqttqtaaac-qtcaqatattttc SBDSP cagacattgtaaacagtcagatattttc 111MUSBDS gcttccttctacccaaatagcctcgttc SBDS Exon 5: (SEQ ID NO: 39) Primer K (SDCR9x5CF) → SBDS tccactqtaqatqtqaactaactcatctgacactacttgaagttctaaaatctttgcaaa SBDSP tccactgtagatgtgaactaacccatctgacactacttgaagttctaaaatctttgcaaa MUSBDS gtatactgtggctgtcttcagacacagcagaaggcatcggatcccattacagatggttgt SBDS actgtacacatgggccaggcacagtggctcgtgcctgtaatcccagcactttgggaggcc SBDSP actgtacacgtgggccaggcacagtggctcatacctgtaatcccagcactttgggaggcc MUSBDS gagccacttgtggttgctgggaattgagctcagaacctctggaagagcagccagtgctga SBDS aaggtgagcagataacatggtgaaaccctatctctactaaaaaatacaaaaaataagccag



## Replacement Sheet 18/20

SBDS	ctaaactggaacccagtgtgccgccctacccattgtcttatctattgcaccatagaact
SBDSP	ctgaactggaacccagtgtgccgccctacccattgtcttatctattgcaccatagaact
MUSBDS	tccaacagtaggtgcttagaatcgagacagaaccccaggcccagcctgctgccctggcct
anna	SDCR9x5Fseq →
SBDS	tggtattattagagatctggacagcattgt <u>qcttqcctcaaaqqaaqtt</u> aaagctgagtt
SBDSP	tggtattagagatctggacagcattgtgcttgcctcaaagttaaagctgagtt
MUSBDS	ccatgtgagcagcacctagaacacagtcatagatctgccctgagcattcaaactgggctt
	•
	625
	v c
SBDS	tattctgtgtcttgctcatcctcatgtggtaatctgctacgttaaatgtttcagGTATGT
SBDSP	
MUSBDS	
CUECOM	attotgtgccgatgcccatcttcccttggaaaccagctgtgttactcattgcagGTGTGC
	v c
	LIDPGCFREIDELIKKETKG
SBDS	CTGATTGACCCGGGCTGCTTCCGAGAAATTGATGAGCTAATAAAAAAGGAAACTAAAGGC
SBDSP	
MUSBDS	TCATCGACCCAGGCTGCTTCAGAGAAATTGATGAGCAAAAAAAA
	LIDPGCFREIDELIKKETKG
750	
	KGSLEVLNLKDVEEGDEKFE
SBDS	AAAGGTTCTTTGGAAGTACTCAATCTGAAAGATGTAGAAGAAGGAGATGAGAAATTTGAA
SBDSP	
1010000	_
MUSBDS	AGGGGTTCTCTGGAAGTCTCAGTCTGAAGGACGTGGAGGAAGGCGATGAGAAGTTTGAA
	R G S L E V L S L K D V E E G D E K F E
	·
SBDS	tgacacccatcaatctcttcacctctaaaacactaaagtgtttccgtttccgacggcact
SBDSP	tgacacccatcagtctcttcacctctaaaacactaaagtgttttcgtttccaacagcact

# Replacement Sheet 19/20

MUSBDS	
SBDSP SBDSP MUSBDS	gtttcatgtctgtggtctgccaaatacttgcttaaactatttgacattttctatctttgt
SBDS SBDSP MUSBDS	gttaacagtggacacagcaaggctttcctacataagtataataatgtgggaatgatttgg
SBDS SBDSP MUSBDS	ttttaattataaactggggtctaaatcctaaagcaaaattgaaactcc <u>aaqatqcaaaqt</u>
SEDSP MUSEDS	Primers L/R (RTSDCR95R/SDCR9x5BR)  ccaqaqtqqcattttgctactctgtctcatgccttgatagctttccaaaatgaaagttac  [
SBDS SBDSP MUSBDS	ttgaggcagctcttgtgggtgaaaagttatttgtacagtagagtaagattattaggggta
SBDS SBDSP MUSBDS	tgtctatacaacaaaaggggggtctttcctaaaaaagaaaacatatgatgcttcatttc

SBDSP MUSBDS	tacttaatggaacttgtgttctgagggtcattatggtatcgtaatgtaaagcttggatga
SBDSP SBDSP MUSBDS	tgttcctgattatctgagaaacagatatagaaaaattgtgccggac-ttacctttca
SBDSP MUSBDS	ttgaacatgctgccataacttagattattcttggttaaaaaataaaagtcacttatttct
site)	(polyadenylation
SBDS SBDSP MUSBDS	aattettaaagtttataatatatataatatagetaaaattgtatgta
SBDS SBDSP	(end of human transcript, mRNA of 1605nt)    actcttatgtttattaaactatggcttgtgtttctagacaacttcctaactccctttctt
SBDS	ttete       ttete